

Title (en)

METAL OXIDE SENSOR FOR DETECTING NITROGEN OXIDES

Title (de)

METALLOXIDSENSOR ZUR FESELLUNG VON STICKOXIDEN

Title (fr)

DETECTEUR A OXYDE METALLIQUE PERMETTANT LA DETECTION D'OXYDES D'AZOTE

Publication

**EP 1042666 A1 20001011 (EN)**

Application

**EP 98959588 A 19981201**

Priority

- US 9825118 W 19981201
- US 7027297 P 19971231

Abstract (en)

[origin: WO9934199A1] A sensor system is disclosed for detecting nitrogen oxides in a flowing gas stream, having a sensor oxidation catalyst capable of both oxidizing CO and NO in the gas sample to CO<sub>2</sub> and NO<sub>2</sub>, respectively, which is incorporated into the system so as to oxidise the CO and NO in the flowing gas stream prior to the gas stream contacting a metal oxide semiconducting sensor; an n-type semiconducting metal oxide sensor, whose electrical resistance varies in relation to the concentration of nitrogen oxides in the flowing gas stream.

IPC 1-7

**G01N 27/12**

IPC 8 full level

**G01N 27/12** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP KR)

**B01J 23/42** (2013.01 - KR); **B01J 23/8906** (2013.01 - KR); **B01J 23/8926** (2013.01 - KR); **C01G 19/02** (2013.01 - KR); **G01N 27/12** (2013.01 - EP); **G01N 27/125** (2013.01 - KR); **G01N 33/0037** (2013.01 - EP KR); **H01L 21/02535** (2013.01 - KR); **Y02A 50/20** (2017.12 - EP)

Citation (search report)

See references of WO 9934199A1

Cited by

WO2022008782A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI NL SE

DOCDB simple family (publication)

**WO 9934199 A1 19990708**; CN 1285914 A 20010228; EP 1042666 A1 20001011; KR 20010033717 A 20010425

DOCDB simple family (application)

**US 9825118 W 19981201**; CN 98812845 A 19981201; EP 98959588 A 19981201; KR 20007007240 A 20000628